

PCI-I8AD12

8-channel single-ended/4-channel differential analog input channel, conversion rate up to 500k; 16-channel isolated digital input/output channel; 3-channel programmable timer/counter



Specifications and Features

Analog (AD) Input

Channel: 8-channel single-ended/4-channel differential

Resolution: 12-bit

FIFO Size: 2K x 16-bit

Max. Sampling Rate: 500KHz

Input Signal Range: 0~10V, $\pm 5V$, $\pm 10V$

Max. Input Overload Voltage: $\pm 15V$

Input Protection: 70Vp-p (peak-to-peak value)

Input Impedance: 2 M Ω

Input Channel Selection Method: Single-channel/multiple-channel auto-scan

Interrupt Mode: Interrupt after AD conversion or interrupt when FIFO is half-full

A/D Trigger Mode: Software trigger/external trigger/counter trigger

Accuracy: 0.5% (FSR) or even higher

Isolation Voltage: 2500V_{DC}

Isolated Digital Input/Output:

Input Channel: 16-channel

Supports dry contact and wet contact input

Isolation Voltage: 2500V_{DC}

Overvoltage Protection: 70V_{DC}

Input Impedance: 2.7K@1W

Data Throughput: 10KHz

Input Voltage: Low-level 0V~2V_{DC}; high-level 5V~30V_{DC}

ESD (electrostatic discharge) Protection: 2000V_{DC}

Output Channel: 16-channel

Supply Voltage: 5V~40V_{DC} (external)

Output Current: 200mA (max.)/channel

Isolation Voltage: 2500V_{DC}

Programmable Timer/Counter

Channel: Three counters (counter 0 ~ counter 2 adopt 82C54 device for users)

Resolution: 16-bit

Internal/External Time Base: 10MHz

Max. Working Frequency: 10MHz

General Specifications

4-bit Board ID setup function

Compatible with 3.3V and 5V general board design of PCI2.1 specification

Typical +5V @550mA; max. +5V @600mA

External Dimensions (L x H): 175mm x 106mm (6.9" x 4.2")

Operating Temperature: 0°C~60°C

Storage Temperature: -20°C~70°C

Relative Humidity: 5%~95% RH, (IEC 68-2-3), non-condensing

Ordering Information

Part Number	Model Number	Description
0060-002980	PCI-I8AD12	8-channel single-ended/4-channel differential A/D input, 16-channel isolated digital I/O, 3-channel programmable timer/counter
0060-003060	PCLD-8754	SCSI-68 connector industrial terminal board, onboard CJC (cold-junction compensation) circuit.
0080-001010	PCL-10168-15M	SCSI-68 converter cable, matching PCLD-8754